МЕТАЛЛ ПРОДУКЦИЯ WWW.KARTER.RU	Installation manual	Model: BMW 3ER	Skid plate for: engine bay	Article: 03.0326
	Body type: E46	Years: 1998 - 2001	Engine type: 1,6; 1,8; 2,0; 2,3	

Engine bay and transmission elements skid plate has been designed and manufactured by LLC Metalloproduktsia. Product conforms to TOR 4591-001-25888788-2006 requirements. Product design is protected by model copyright certificates №89059, 15980, 15981, 15982, 15983. Patented in Russian Federation.

APPLICATION:

Protection of engine bay and transmission elements from mechanical deformation.
Protection of engine bay and transmission elements from dust and damp.

INSTALLATION:

Engine bay and transmission elements skid plate has been designed particularly for a certain vehicle. It should be mounted according to the producer's installation instruction by a dedicated dealer or on certified service stations. The skid plate is fixed to regular apertures located on vehicle's body load-bearing elements. In case of correct installation the skid plate should not interfere with any vehicle's units and components.

INSTALLATION MANUAL:

1. Remove regular plastic dust guard.
2. Disassemble the skid plate to component parts.
3. Fix the man part of the skid plate to the cross bar with special fasteners. Then fix it to the front axle beam with the hold down.
4. Unscrew the front bolts of the stabilisator"s fastener and fix element "I" with regular self screwing bolts.
5. Fix element "II" to already installed elements with bolts M8x20.
6. Tighten all screw joints.

OPERATING CONDITIONS:

Engine bay and transmission elements skid plate has been designed to operate in conditions specified by vehicle's producer. Cases of crush or driving into obstacles at a speed should be excluded during exploitation. In case of head-on crush it is necessary to assure in absence of damages of vehicle's components and units and availability of roadworthiness on certified service stations.

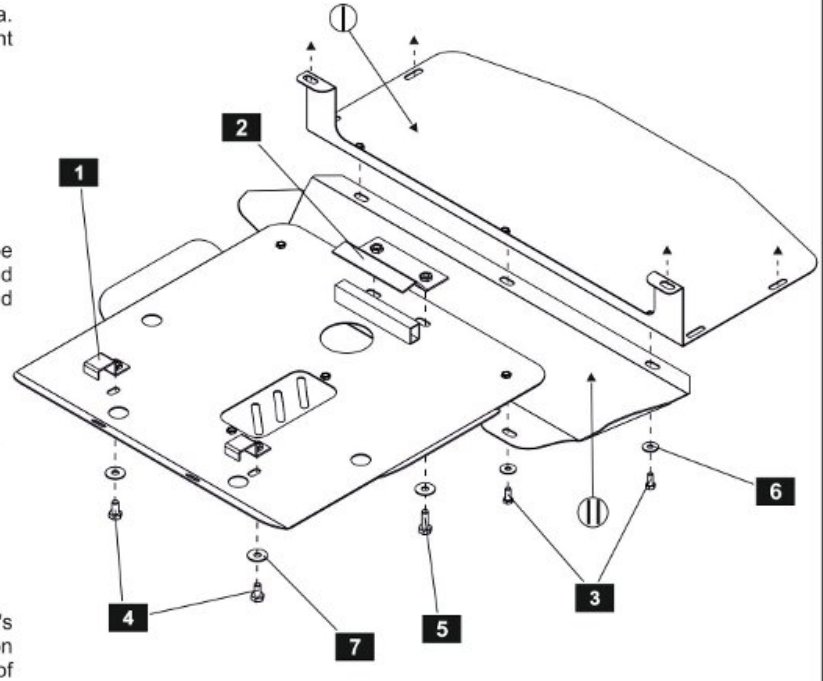
WARRANTY:

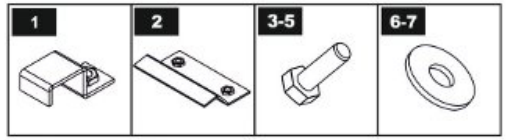
Warranty period - 1 year.

WARRANTY TERMS:

The skid plate should be installed on a vehicle with undamaged body and load-bearing elements (vehicle, which hads never been involved in road traffic accident);
There are no mechanical damages of the skid plate resulting from head-on crush. All requirements to skid plate installation should be satisfied;
There are no mechanical damages of powder coating.
Producer does not bear liability for damages caused to the vehicle, health and life of people in case of installation and exploitation terms violation. Producer has a right to introduce changes into the skid plate construction.

The Quality Management System of LLC Metalloproduktsia has been audited by Bureau Veritas Certification and conforms to requirements of the ISO 9001:2008 standard.





LIST OF PARTS

NO.	NAME	QTY.	NO.	NAME	QTY.
1	Special fastener	2	5	Bolt M 10x30	2
2	Hold down	1	6	Washer 8	7
3	Bolt M 8x20	7	7	Washer 10	4
4	Bolt M 10x20	2	8		

Thread	M6x1.0	M8x1.25	M10x1.5	M12x1.75
Tightening torque	9.8 Nm	24.0 Nm	47.0 Nm	81.0 Nm